

07-25-01

ATTORNEY DOCKET NO.  
021953.0304

PATENT APPLICATION  
09/811,095

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Joseph P. Estrera, et al.

Serial No.: 09/811,095

Filing Date: March 16, 2001

Title: METHOD AND SYSTEM FOR DETECTING RADIATION  
INCORPORATING A HARDENED PHOTOCATHODE

09811695 072301

Assistant Commissioner for  
Patents  
Washington, D.C. 20231

Dear Sir:

"CERTIFICATE OF MAILING BY  
EXPRESS MAIL"

I hereby certify that this communication is  
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date indicated below and is addressed to:  
Assistant Commissioner of Patents,  
Washington, DC 20231.

*Willie Jiles*  
Willie Jiles  
*July 23, 2001*  
Date  
Express Mail # EL 759190895 US

**RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS**

In response to the Notice to File Corrected Application Papers mailed May 30, 2001,  
Applicants submit herewith an amended Abstract. Please amend the Application as follows.

IN THE SPECIFICATION

Applicants are amending the specification so that, after amendment, the Abstract will read as set forth in the clean version of the Abstract which appears below. Enclosed with this Amendment is a marked-up version of the Abstract, showing in bold type the changes which have been made by this Amendment. Also, attached to this Amendment as Exhibit A is the clean version of the Abstract on a separate sheet.

A method for detecting radiation is disclosed that includes forming a detector having a photocathode (22) with a protective layer (22c) of cesium, oxygen and fluorine; a microchannel plate (MCP) (24); and an electron receiver (26). Radiation is received at the photocathode (22). The photocathode (22) discharges electrons (34) in response to the received photons. Discharged electrons (34) are accelerated from the photocathode (22) to the input face (24a) of the microchannel plate (24). The electrons (34) are received at the input face (24a) of the microchannel plate (24). A cascade of secondary emission electrons (36) is generated in the microchannel plate (24) in response to the received electrons (34). The secondary emission electrons (36) are emitted from the output face (24b) of the microchannel plate (24). Secondary emission electrons (36) are received at the electron receiver (26). An output characteristic of the secondary emission electrons (36) is produced.

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CONCLUSION

The Commissioner is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 02-0384 of Baker Botts L.P.

Respectfully submitted,

BAKER BOTT S, L.L.P.  
Attorneys for Applicants

  
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Date: July 23, 2001

Enclosure: Marked-up copy of Abstract showing amendments (2 sheets)



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)



| APPLICATION NUMBER | FILING/RECEIPT DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|---------------------|-----------------------|------------------------|
| 09/811,095         | 03/16/2001          | Joseph P. Estrera     | 021953.0304            |

CONFIRMATION NO. 1073

## FORMALITIES LETTER



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 Dallas, TX 75201-2980

Date Mailed: 05/30/2001

## NOTICE TO FILE CORRECTED APPLICATION PAPERS

*Filing Date Granted*

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

The required item(s) identified below must be timely submitted to avoid abandonment:

- An Abstract not to exceed 150 words in length, commencing on a separate sheet (37 CFR 1.72(b)).

*A copy of this notice MUST be returned with the reply.*

*Thain*  
 Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

TO: 2240-560TT860